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                                                                                                                                                                                                                                                                                                   /* The t
| ** with
               #include <sys/syslog.h>
                            #include <stdlib.h>
                                                                                                 ¥
                                                                                                                                                                                                                         #endif
                                                                                                                                                                                                                                                         static char RCS_id [] =
                                                                                                                                                                                                                                                                     #ifndef lint
                                                                                                                                                                                                                                                                                                                                                                                                *
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           System headers
                                                                                                                                                                 Standard defines required
                                                                                                                                Remove
                                                                                                                                          The following is
                                                                                                                                                                             Feature test switches.
                                                                                               #define
                                                                                                                                                                                                                                                                                                               The following provides an
                                                                                                                                                                                                                                                                                                                                                                                               Compile-Time
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Table of Contents:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Copyright (c) 1998, 1999 by EMC Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Purpose:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          File Name:
                                                                                                                                                                                                                                                                                                     the what(1) utility.
                                                                                                                                                                                                                                                                                                                                                                                                                            Internal Functions:
EDMRE_ProgressCallback
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Restore Service Library calls that perform the actual RPC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Engine RPC's.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           provide the top level processing of the 'asynchronous'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This module contains the
                                                                                              _POSIX_SOURCE 1 */
                                                                                                                               non-POSIX,
                                                                                                                                                                                                                                                                                                                                                                                              Options:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EDMREProcMgrService.c
                                                                                                                                                                                                                                                                                                                                                                                                                     EDMRE_RestoreCallback
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EDMRE_Submit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EDMRE_FindRestorableObjects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EDMRE_Finish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EDMRE_Start
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EDMRE_UnmarkObject
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EDMRE_MarkObject
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EDMRE_GetRestorableObjects
                                                                                                                                         required
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         These functions are basically 'wrappers'
                                                                                                                                                                                                                                                         "$RCSfile$ "
                                                                                                                                                                                                                                              "$Revision$ "
                                                                                                                                                                                                                                    "$Date$"
                                                                                                                               non-portable
EDMREProcMgrService.c 1
                                                                                                                                           for code
                                                                                                                                                                 to turn on OS
                                                                                                                                                                                                                                                                                                               RCS id in the binary that can be located
                                                                                                                                                                                                                                                                                                     The intent is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Process Manager (
                                                                                                                                         that
                                                                                                                                code
                                                                                                                                          uses
                                                                                                                                                                 features
                                                                                                                                                                                                                                                                                                     to keep this short
                                                                                                                                           POSIX API'S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     thread) functions that
                                                                                                                                                                 go here.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   services.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Restore
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*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               static
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         static boolean_ty EDMRE_ProgressCallback( unsigned long progress );
                                                                                                                                                                                                                                                                                                                                                                                                                                                           #include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #include
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #include <unistd.h>
#include <string.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #include <ebutil/ebutil.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               * Local functions
                                                                                                                                                                                                                                                                                                                           Return Codes:
                                                                                                                                                                                                                                                                                                    Purpose:
                                                                                                                                                                                                                                                                                                                                                                        Outputs:
                                                                                                                                                                                                                                                                                                                                                                                              Inputs:
                                                                                                                                                                                                                                                                                                                                                                                                                     Routine:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Epoch headers
                                                                                                                                                                                                                                   EDMRE_GetAllBackupTimes ( void *input_args, void **output_args )
                 else
                                                                                                        Ļ.
                                                                                                                                         out_args = calloc( 1,
                                                                                                                                                                                     = (RE_get_all_backup_times_args *)input_args;
RE_get_all_backup_times_result *out_args;
                                                                                                                                                                                                             RE_get_all_backup_times_args
                                                                                                      (NULL == out_args)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             boolean_ty EDMRE_RestoreCallback( void );
                                                                                EDMRestoreEng_logent(
                                                status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <EDMRECommandApi.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <EDMRestoreEngLog.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <EDMProcessManager.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <RSLapi.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    headers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <restore/REprogmsg.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <restore/EDMREProgressApi.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <restore/restore_engine.h>
                                                                                                                                                                                                                                                                                                    Wrapper of Restore service library call to
                                                                                                                                                                                                                                                                                                                                                                         void **status
                                                                                                                                                                                                                                                                                                                                                                                            void *input_args
                                                                                                                                                                                                                                                                                                                                                                                                                     EDMRE_GetAllBackupTimes
                                                                                                                                                                                                                                                                                          asynchronously from main
                                                                                                                                                                                                                                                                                                                           for success and non-zero for failure
                                                                                                                                                                 status =
                                              ), "calloc fail for RE_get_all_backup_times_args" );
COMMAND_RESULT_FAILURE; /* fatal error */
                                                                       FILE_
                                                                                                                                         sizeof (RE_get_all_backup_times_result) );
                                                                                                                                                               COMMAND_RESULT_SUCCESS;
EDMREProcMgrService.c 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EDMRE_GetAllBackupTimes
                                                                                                                                                                                                                                                                                                                                                                         addr of void *
                                                                                                                                                                                                                                                                                                                                                                                               ptr to struct with RPC input args
                                                                     _LINE___, LOG_ERR, MESSAGE_NO_MEMORY,
                                                                                                                                                                                                                                                                                           RPC thread
                                                                                                                                                                                                             *in_args
                                                                                                                                                                                                                                                                                                                                                                         to receive ptr output
                                                                                                                                                                                                                                                                                                       Бе
                                                                                                                                                                                                                                                                                                      executed
                                                                                                                                                                                                                                                                                                                                                              arg struct
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Page 2 of 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ****
```

	return status;	190 1			
}	<pre>free( in_args);</pre>	188 1			
jects_start_args, ( char *)in args):	xdr_free( xdr_RE_get_restorable_objects	187 1			
, .	*output_args = (void *)out_args;	184 2 185 1			
in_args->allowBadFiles );	and a funid				
in_args->maxEntries, &out args->numEntries,					
<pre>in_args-&gt;parentObj-&gt;objLevel,</pre>		178 2 179 2			
(restorableObjectPtr)in_args->parentObj->RE_restorable_obj_u.	(restorableObjectPtr)in_args->	177 2			
gs->cookie; GetRestorableObjects(	else { out_args->cookie = in_args->cookie; out_args->status = RSTSL GetRestora	173 1 174 2 175 2			
	מרמי רמי ו	171 1			
fail for RE_get_restorable_objects_output_result" );  COMMAND PEGITO FAILIBE: /* fatal error */	ر ۾ ا				
E, LOG_ERR, MESSAGE_NO_MEMORY,	EDMRestoi				
	<pre>if (NULL == OUC_args)</pre>	166 1 167 2			
_restorable_objects_output_result) );	t_args = calloc( 1, sizeof( RE_get				
T_SUCCESS;	int status = COMMAND_RESULT_SUCCESS;	163 1			
start_args *)input_args; esult *out_args;	<pre>RE_get_restorable_objects_start_args = (RE_get_restorable_objects_start_args RE_get_restorable_objects_output_result</pre>	159 1 160 1 161 1			
_args,	EDMRE_	بر	itatus;	return status;	138 1
	*/	156	in_args);	free( 1	136 1
*******	***************************************	154 155	free( xdr_RE_get_all_backup_times_args, (char *)in_args);	xdr_fre	135 1
e library call to be executed RPC thread	Purpose: Wrapper of Restore service asynchronously from main		*output_args = (void *) out_args;	) *o	132 2 133 1
11. 12. 12. 12. 12. 12. 12. 12. 12. 12.	0 101 8000		&out_args->cookie);		131 2
o for failure	Return Codes:		&out_args->numEntries,		
		4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	&out_args->backupTimes,		
f void * to receive ptr	Outputs: void **status addr	146	in_args->flags,		128 2
o struct with RPC input args	** Innuts: void *innut args atr to	144			127 2
Ŋ	** Routine: EDMRE_GetRestorableObjects	142 143			
**********	/*************************************	141	out_args->cookie = in_args->cookie; out_args->status = RSTSL_GetAllBackupTimes(	οι οι {	123 2 124 2 125 2
					. 490 0 0.00

RE_unmark_object( void *input_args, void **output_args)  RE_unmark_object_args	ומט מטן דמטמטטטטט טטן דד ד	<pre>EDMRestoreEng_logent(</pre>	220 221 221 221 222 222 222 223 233 233 233
<pre>bject( void *input_args, voic ect_args</pre>	יאט ממל דו אר א א א א א א א א א א א א א א א א א א	<pre>EDMRestoreEng_logent(</pre>	220 221 221 222 222 222 223 223 233 233 233
<pre>bject( void *input_args, voic ect_args</pre>	ראט ממן דמממממממט ממן דד ד	<pre>EDMRestoreEng_logent(</pre>	220 221 221 221 222 222 222 223 233 233 233
<pre>bject( void *input_args, voic ect_args</pre>	ומט ממן דמממממממ ממן דד ד	<pre>EDMRestoreEng_logent(</pre>	220 221 221 222 222 222 224 225 227 227 230 231 231 231 231 232 233 233 233 233 233
<pre>bject( void *input_args, voic ect_args</pre>		<pre>EDMRestoreEng_logent(</pre>	220 221 221 222 222 222 224 225 227 228 233 233 233 233 233 233 233 234
<pre>UnmarkObject( void *input_args, void ark_object_args</pre>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	EDMRestoreEng_logent(FILE, _LINE, LOG_ERR, MESSAGE_NO_MEMORNOON	220 221 221 222 222 222 223 223 233 233 233
<pre>UnmarkObject( void *input_args, void ark_object_args</pre>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<pre>EDMRestoreEng_logent(</pre>	220 221 222 222 222 222 225 227 227 228 229 230 231 231
<pre>UnmarkObject( void *input_args, void ark_object_args</pre>	(e) {	<pre>EDMRestoreEng_logent(</pre>	222 222 222 222 222 222 223 223 223 233 233
<pre>UnmarkObject( void *input_args, void ark_object_args</pre>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<pre>EDMRestoreEng_logent(</pre>	221 222 221 222 222 224 225 226 227 227 228 228 229 230
<pre>### CommarkObject ( void *input_args, void **output_args ) ###</pre>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<pre>EDMRestoreEng_logent(</pre>	220 221 222 222 223 224 225 225 227
<pre>### CommarkObject( void *input_args, void **output_args ) ####</pre>	1 2 2 2 2 3	<pre>EDMRestoreEng_logent(</pre>	220 221 222
<pre>### CommarkObject( void *input_args, void **output_args ) ### ark_object_args</pre>	2 2 (	EDMRestoreEng_logent(	212
<pre>####################################</pre>			218
<pre>####################################</pre>	out	<pre>out_args = calloc( 1, sizeof(RE_get_mark_results_result) ); if (NULL == out_args)</pre>	216 217
"#####################################	266 1 int	<pre>int status = COMMAND_RESULT_SUCCESS;</pre>	214
oid *input_args, void **output_args )  *in_args = (  RE unmark object args *)input	264 1 RE_get	rgs;	212
*input_args, void **output_args )		RE_mark_object_args	211
****	*/ int 1	int EDMRE_MarkObject( void *input_args, void **output_args )	208
**************************************	* * * *	***************************************	207
e: Wrapper of Restore service library call to be executed asynchronously from main RPC thread		** Purpose: Wrapper of Restore service library call to be executed  ** asynchronously from main RPC thread  **	204
Codes: O for success and non-zero for failure.	253 ** Return 254 ** 255 **	** Return Codes:  **  0 for success and non-zero for failure.  **	201 202 203
s: void **status addr of void * to receive ptr output arg struct		** Outputs: void **status addr of void * to receive ptr output  **	199 200
void *input_args ptr to struct with RPC input args	248 ** Inputs: 249 **	** Inputs: void *input_args ptr to struct with RPC input args	197
e: EDMRE_UnmarkObject		** ** Routine: EDMRE_MarkObject **	194
*************************************	245 /*****	/*************************************	193

		A1-14-			
					***************************************
		353 }			
<pre>/* user-signalled cancel */</pre>	return TestRpcCancelFlag( );	352 1			
<pre>/* no sign of user life */</pre>	return TRUE;				
<pre>internal_status )</pre>		349 1 350 1			
<pre>last_rpc_time, status_time,</pre>	<pre>return TRUE; if (TRUE == IsRestoreTimedOut( last_rpc_time, ;</pre>	347 1 348 1			
<pre>EDMRE_STATE_USER_QUIT EDMRE_STATE_ADMIN_QUIT) /* someone aborted */</pre>	<pre>if (internal_status == EDMRE_ST    internal_status == EDMRE_ST</pre>	345 1			
<pre>= getGlobalStatus( &amp;status_time ); getLastRpcTime( );</pre>	<pre>internal_status = getGlobalStat last_rpc_time = getLastRpcTime(</pre>	342 1 343 1			
	time_t status_time;	340 1	stRpcCancelFlag( );	return Te }	316 1 317
internal_status;	lobalStatus last_rpc_time;	338 1		{ UpdatePro	314 1
( void )	atic boolean_ty EDMRE_RestoreCa		EDMRE PrograssCallback( unsigned long progress )	boolean tv	312
*****	*/		***************************************	******	311
*************************	水水水水 年老米米冰水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	334	,		310
function to return check for cancellation.	by 'Start'		return progress information and check for	* * to .	309
Restore service library callback function to be called	** Purpose: Restore service library cal	330	Restore service library callback function to be called	** Purpose: Rest	307 308
TRUE if operation can continue	boolean_ty		boolean_ty FALSE if operation can continue TRUE if operation should be cancelled		305 306
	Return Codes:			** Return Codes:	304
	** Outputs: none **			** Outputs: none	302
	** Inputs: none **	The Printer and a second	unsigned long progress objects processed so far	Inputs:	300
	*** Routine: EDMRE_RestoreCallback **	321 322	EDMRE_ProgressCallback	** Routine: EDMRE  **	297
**************************************	/*************************************		***************************************	****	296
		. 590			

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		return status;	410 1 411
		<pre>xdr_free( xdr_RE_submit_args, (char *)in_args); free( in_args );</pre>	407 1 408 1
return status;	455 455	<pre>out_args-&gt;submitObjectID = in_args-&gt;submitObjectID; out_args-&gt;status = RSTSL_Submit( in_args-&gt;hostname,</pre>	393 2 394 2 395 2 396 2 397 2 398 2 399 2 400 2 400 2 400 2 400 2 400 2
<pre>xdr_free( xdr_RE_start_args, (char *)in_args); free( in_args );</pre>	451 1 452 1	- 11	
out_args	447 2 448 2 449 1	<pre>else {     submitArgs-&gt;clientSocketPort = in_args-&gt;socketPort;     submitArgs-&gt;mapfile_env = esl_strdup(in_args-&gt;mapFile_env);</pre>	387 1 388 2 389 2 390 2
else { out_args->status = RSTSL_Start( in_args->submitObjectID,	444 1 445 2 446 2	STATUS = COMMAND_KESULT_#AILUKE; //	384 2 385 1
STATUS = COMMAND_KESULY_FAILUKE; /^ idid1 error //		toreEng_logent(FILE, LINE, LOG_ER 0, "calloc fail for RE_get_submi	
<pre>coreEng_logent(    FILE,LINE, LOG_ERR,</pre>		<pre>out_args = calloc( 1, sizeof(RE_get_submit_results_output) ); if (NULL == out_args) {</pre>	379 1 380 1 381 2
<pre>out_args = calloc( 1, sizeof(RE_status_result) ); if (NULL == out_args) {</pre>	436 1 437 1 438 2	_arys status = COMMAN	377 1
int status = COMMAND_RESULT_SUCCESS;	434 1	coutput object_count _res_output	$\frac{374}{375}$ 1
RE_start_args *in_args = (RE_start_args *)input_args; RE_status_result *out_args;	430 1 431 1 432 1	_submit_args = ( RE_	
int EDMRE_Start( void *input_args, void **output_args )		*/ int EDMRE_Submit( void *input_args, void **output_args )	
***************************************	427	***************************************	369
** Purpose: Wrapper of Restore service library call to be executed  ** asynchronously from main RPC thread  **	424 425 426	** Purpose: Wrapper of Restore service library call to be executed  ** asynchronously from main RPC thread  **	366 367 368
** Return Codes:  ** O for success and non-zero for failure.  **	421 422	** Return Codes:  **  **  **  **  **  **	363 364
** Outputs: void **status addr of void * to receive ptr output **	419	** Outputs: void **status addr of void * to receive ptr output **	361
** Inputs: void *input_args ptr to struct with RPC input args	416	Inputs: void *input	359
	414	TIMBE CILET	356
7:30:26 2008 EDMRE_S	Wed	Page 9 of 8	Wed,
7:30:26 2008 EDMRE_Start	Wed.	EDMRE_Submit	Jan 02 17:3

12 of 80 EDMREProcMgrService.c 12 Wed Jan 02 17:30:26 2008	Page 12	of 80 EDMREProcMgrService.c 11 Wed Jan 02 17:30:26 2008	Page 11 of 80
else  ( /* prepare search criteria structi strncpy( searchCriteria.startDirec in_args->searchCriteria- searchCriteria.descendDirectory = in_args->searchCriteria strncpy( searchCriteria.searchCriteria- searchCriteria.excludeString = in_args->searchCriteria- in_args->searchCriteria- searchCriteria.excludeString = in_args->searchCriteria- searchCriteria.excludeString = in_args->searchCriteria- searchCriteria.excludeString = in_args->searchCriteria- searchCriteria.excludeString = in_args->searchCriteria- searchCriteria.excludeOwner = in_args->searchCriteria- in_args->searchCriteria- searchCriteria- in_args->searchCriteria- in_args->searchCrit	530 1 531 2 533 2 2 533 3 2 2 533 2 2 534 2 535 53 53 5 53 5	FOURTH STATUS;	493 1
	5)B		
<pre>EDMRestoreEng_logent(FILE,LINE, LOG_ERR,</pre>	522 1 523 2 524 2 525 2 526 2	<pre>{     xdr_free( xdr_RB_null_args, (char *)input_args);     free( input_args );     *output_args = (void *)out_args; } else    /* only keep output struct if user want it */     free( out_args );</pre>	485 2 486 2 487 2 488 2 489 1 490 1
t_args = c		put_	
59	519 1	<pre>if ( (out_args-&gt;status = RSTSL_Finish( )) != E_SUCCESS)     status = COMMAND_RESULT_FAILURE;</pre>	481 1 482 1
		<pre>out_args = calloc( 1, sizeof(RE_status_result) );</pre>	479 1
RE_find_restorable_objects_args *in_args =  (RE_find_restorable_objects_args *)input_args;  RE_find_restorable_objects_result *out_args;  EBREC SearchCriteriaRec	514 1 515 1 516 1	<pre>int EDMRE_Finish( void *input_args, void **output_args) {    int</pre>	474 475 1 476 1 477 1
*/ int EDMRE_FindRestorableObjects(     void *input_args, void **output_args)		**************************************	472 473
**************************************	510		469 470 471
** Purpose: Wrapper of Restore service library call to be executed  ** asynchronously from main RPC thread  **	506 507 508	Return Codes:  0 for success and non-zero for failure.	466 467 468
** Return Codes:  ** Return Codes:  ** 0 for success and non-zero for failure.	503 505		464 465
** Outputs: void **status addr of void * to receive ptr output arg struct	502	** Outputs: void **status OPTIONAL addr of void * to receive	462 463
Inputs: void *input_args ptr to struct with RPC inp	499 500 501	** Routine: EUMKE_Finish  **  **  **  **  **  **  **  **  **	459 460 461
** Poutine: EDMRE FindRestorableObjects	497		458
<u></u>	496	/*************************************	457
12 of 80 EDMRE_FindRestorableObjects Wed Jan 02 17:30:26 2008	Page 12	of 80 EDMRE_Finish Wed Jan 02 17:30:26 2008	Page 11 of 80

02 17:30:20 2000 EDMINELIOCMGI SELVICE: C 14 rage 14:01:00	A A E C DOLL	EDMI (E. LOCINGLOGIA IO	11.00.10 1000	
7-20-98 2008 EDMBEDrocMarSenice c 14	Wed lan		17:30:26 2008	Wed Jan 02
	611			
return COMMAND_RESULT_SUCCESS;	609 1			
/*	608 1			
load may not have	606 1 607 1			
*output_args = (Void *)outargs;	604 1			
outargs->status = RSTSL_Load_recx_directives(fileinfo);				
* Actually load the recx structure. */	601 1			
/*	600 1			
outargs = calloc(1,sizeof(RE_status_result));	598 1			
			~	572
RSTRPC_recx_file_info * fileinfo = (	596 1		return status;	
void **output_args )		ļ	<pre>free( in_args );</pre>	569
*/ int EDMRE Load recx directives ( void *input_args,	592	_free( xdr_RE_find_restorable_objects_args, (	xdr_free( xdr_RE_f	568
	591		<u></u>	566
* *	590		*output	
** transfer is done with edm link.	589	<pre>EDMRE_ProgressCallback );</pre>		204
load the file contents into the cont	588	&searchCriteria,	J	
** Purpose: Function to retrieve directives file from client and then	586	_args->status = kSTSL_FindRestorableObjects(	out_args-	563
** 0 for success and non-zero for failure.	O 0	+11_0190 \2004\C1\C1\C1\C1\C1\C1\C1\C1\C1\C1\C1\C1\C1\		
** Return Codes.	583	searchCriteria.endTime = in args->searchCriteria->endTime·		559
** Outputs: Error or success from the RSTSL call	582	S - V		558
***	55 80 11	in_args->searcnCriteria->sizeMatch; searchCriteria.startTime =		557
** Inputs: RE_recx_file_info *fileinfo Information on file to be	580	sizeMatch =	searchCriteria.	555
** Routine: int EDMRE_Load_recx_directives **	578		2	554
***	577	nign; teria.sizeInBytes.low =	searchCriteria	553
<u>/</u> \$************************************	576	iteria->sizeInE	N	552
		<pre>in_args-&gt;searchCriteria-&gt;excludeGroup; searchCriteria.sizeInBytes.high =</pre>		550 551
			searchCr	549
n 02 17:30:26 2008 EDMRE Load recx directives Page 14 of 80	Wed Jan 02	EDMRE_FindRestorableObjects Page 13 of 80	Wed Jan 02 17:30:26 2008	Wed

Wed Jan 02 17:30:26 2008	of 80 EDMREProcMgrService.c 16	Page 16	of 80 EDMREProcMgrService.c 15 Wed Jan 02 17:30:26 2008	Page 15 of
	return status;	705 1 706	return status;	657 1 658 }
_args, (char *)in_args);	<pre>xdr_free( xdr_RE_backup_for_time_ar free( in_args);</pre>	702 1 703 1	<pre>xdr_free( xdr_RE_set_backup_time_args, (char *)in_args); free( in_args);</pre>	654 1 655 1
RSTSL_SetBackupForTime( in_args->time, in_args->flags); id *) out_args;	<pre>else {    out_args-&gt;status = RSTSL_SetBacku    *output_args = (void *) out_args; }</pre>	695 1 696 2 697 2 698 2 699 2 700 1	<pre>else {     out_args-&gt;status = RSTSL_SetPrevBackup( in_args-&gt;flags);     *output_args = (void *) out_args; }</pre>	648 1 649 2 650 2 651 2 652 1
LINE, LOG_ERR, MESSAGE_NO_MEMORY, for RE_status_result" ); _FAILURE; /* fatal error */	<pre>if (NULL == out_args) {     EDMRestoreEng_logent(</pre>	689 1 690 2 691 2 692 2 693 2	<pre>if (NULL == out_args) {      EDMRestoreEng_logent(</pre>	641 1 642 2 643 2 644 2 644 2 645 2
sizeof (RE_status_result) );	out_args = calloc( 1, sizeof (RE_st	686 1	out_args = calloc( 1, sizeof (RE_status_result) );	638 1
Largs *)input_args; *out_args;	RE_backup_for_time_args *ir = (RE_backup_for_time_args RE_get_all_backup_times_result		<pre>RE_Set_DacKup_time_args * )input_args; RE_get_all_backup_times_result *out_args; int status = COMMAND_RESULT_SUCCESS;</pre>	632 1 633 1 636 1
**************************************	*/ int EDMRE_SetBackupForTime( void *input {	677 678	t EDMRE_SetPreviousBackup( void	Р
for failure. library call to be execu	** Return Codes:  ** Purpose: Wrapper of Restore service ** asynchronously from main !  ***	669 670 671 672 673 674 675	** Return Codes:  ** Peturn Codes:  ** O for success and non-zero for failure.  **  ** Purpose: Wrapper of Restore service library call to be executed  **  ** asynchronously from main RPC thread  **  **  **  **  **  **  **  **  **	622 623 624 625 626 627
to struct with RPC input args	** Routine: EDMRE_SetBackupForTime  ** Inputs: void *input_args ptr t  ** Outputs: void **status addr	663 665 666 667 667	** Routine: EDMRE_SetPreviousBackup  ** Inputs: void *input_args ptr to struct with RPC input args  **  **  **  Outputs: void **status addr of void * to receive ptr output  arg struct  **	
***************************************	\*************************************	662	* * * * * * * * * * * * * * * * * * *	
Wed Jan 02 17:30:26 2008	of 80 EDMRE_SetBackupForTime	Page 16 of 80	of 80 EDMRE_SetPreviousBackup Wed Jan 02 17:30:26 2008	Page 15 of 80

Wed Jan 02 17:30:26 2008 EDMREProcMgrService.c 18 Page 18 of 80	EDMREProcMgrService.c 17 Page 17 of 80 W	Wed Jan 02 17:30:26 2008 EDMREPro	Wed
return status;	797 798	return status;	751 752
<pre>xdr_free( xdr_RE_set_backup_time_args, (char *)in_args); free( in_args);</pre>	ne_args, (char *)in_args); 794	<pre>xdr_free( xdr_RE_set_backup_time free( in_args);</pre>	748 749
<pre>else  cont_args-&gt;status = RSTSL_SetFirstBackup(in_args-&gt;flags);  contput_args = (void *) out_args; }</pre>	788 s = RSTSL_SetNextBackup( in_args->flags); 790 (void *) out_args; 791	<pre>1 else 2 {     out_args-&gt;status = RSTSL_{ 2     *output_args = (void *) output_args =</pre>	742 743 744 745 746
<pre>if (NULL == out_args)  {</pre>	781 LINE, LOG_ERR, MESSAGE_NO_MEMORY, for RE_status_result"); _FAILURE; /* fatal error */ 786	<pre>if (NULL == out_args)  {     EDMRestoreEng_logent(</pre>	735 736 737 737 738 739
out_args = calloc( 1, sizeof (RE_status_result) );	(RE_status_result) );	out_args = calloc( 1, sizeof	732
int status = COMMAND_RESULT_SUCCESS;	COMMAND_RESULT_SUCCESS; 776	int status =	730
<pre>int EDMRE_SetFirstBackup( void *input_args, void **output_args )  {     RE_set_backup_time_args</pre>	_args, void **output_args) _args _args *)input_args; *out_args;	int EDMRE_SetNextBackup( void *in  RE_set_backup_time_args	724 725 726 727 728
* * * * * * * * * * * * * * * * * * * *	:	*	723
Purpose: Wrapper of Restore service library call to be executed asynchronously from main RPC thread	library call to be executed RPC thread	** Purpose: Wrapper of R  ** Purpose: Wrapper of R  ** asynchronou	718 719 720 721 721
for allows and non-novo for	n-zero for failure	** Return Codes:  1	716
** Outputs: void **status addr of void * to receive ptr output  arg struct	addr of void * to receive ptr output arg struct	** Outputs: void **status	714
** Routine: EDMRE_SetFirstBackup  ** Inputs: void *input_args ptr to struct with RPC input args	ptr to struct with RPC input args	** Routine: EDMRE_SetNextBackup  **  ** Inputs: void *input_args  **	710 711 712
/************************************	***************************************	00 ***  ******  ******  *******  ********	708
Wed Jan 02 17:30:26 2008 EDMRE_SetFirstBackup Page 18 of 80	EDMRE_SetNextBackup Page 17 of 80	Wed Jan 02 17:30:26 2008 EDMRE	We

Wed Jan 02 17:30:26 2008	EDMREProcMarService.c 20	Page 20 of 80	Wed Jan 02 17:30:26 2008	EDMBEDrocMargerice o 10	40 24 00	)
				return status;	<b>⊢</b>	843 844
			(char *)in_args);	<pre>xdr_free( xdr_RE_set_backup_time_args, free( in_args);</pre>	- H	840 841
			s = RSTSL_SetMostRecentBackup( in_args->flags); (void *) out_args;	<pre>else {     out_args-&gt;status = RSTSL_SetMostRe     *output_args = (void *) out_args; }</pre>	1 e	834 835 836 837 838
			LINE, LOG_ERR, MESSAGE_NO_MEMORY, for RE_status_result" ); _FAILURE; /* fatal error */	EDMRestoreEng_logent(FILE, 0, "calloc fail status = COMMAND_RESULT	122 21	
				if (NULL == out_args)		827
			s_result) );	out_args = calloc( 1, sizeof (RE_status_result)	<u>-</u>	824
			JCCESS;	int status = COMMAND_RESULT_SUCCESS;	p-4	822
			out_args;	<pre>RE_set_backup_time_args</pre>	م دم دم دم م	818 819 819
			_args, void **output_args )	EDMRE_SetMostRecentBackup( void *input.	int	
			***************	**************************************	* : * : *	814
			library call to be executed RPC thread	Purpose: Wrapper of Restore service lii asynchronously from main RPC		811
			for failure.	Return Codes: 0 for success and non-zero fo	* * * : * * * :	808 809
			<pre>void * to receive ptr output     arg struct</pre>	Outputs: void **status addr of v		806
			struct with RPC input args	Inputs: void *input_args ptr to st		803
				Routine: EDMRE_SetMostRecentBackup		801 802
			***************************************	<u>/</u> ************************************	*	800
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BDC COrporation.  66 **Local Mandeers**  67 **Vinclude deBiinterns.hb**  68 **Include deBiinterns.hb**  69 **Include deBiinterns.hb**  60 **Include deBiinterns.hb**  60 **Include deBiinterns.hb**  61 **Include deBiinterns.hb**  62 **Include deBiinterns.hb**  63 **Include deBiinterns.hb**  64 **Include deBiinterns.hb**  65 **Include deBiinterns.hb**  77 **Include deBiinterns.hb**  78 **Include deBiinterns.hb**  79 **Include deBiinterns.hb**  70 **Include deBiinterns.hb**  70 **Include deBiinterns.hb**  70 **Include ternover_context *ccd.;  71 **Include ternover_context *ccd.;  72 **Include ternover_context *ccd.;  73 **Include ternover_context *ccd.;  74 **Include ternover_context *ccd.;  75 **Include ternover_context *ccd.;  76 **Include ternover_context *ccd.;  77 **Include ternover_context *ccd.;  78 **Include ternover_context *ccd.;  79 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  81 **Include ternover_context *ccd.;  82 **Include ternover_context *ccd.;  83 **Include ternover_context *ccd.;  84 **Include ternover_context *ccd.;  85 **Include ternover_context *ccd.;  86 **Include ternover_context *ccd.;  87 **Include ternover_context *ccd.;  88 **Include ternover_context *ccd.;  88 **Include ternover_context *ccd.;  88 **Include ternover_context *ccd.;  89 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  80 **Include ternover_context *ccd.;  81 **Include ternover_context *ccd.;  81 **Include ternover_context *ccd.;  82 **Include ternover_context *ccd.;  83 **Include ternover_context *ccd.;  84 **Include ternover_context *ccd.;  85 **Include ternover_context *ccd.;  86 **Include ternover_context *ccd.;  87 **Include ternover_context *ccd.;  87 **Include ternover_context *ccd.;  88 **Include ternover_context *ccd.;  89 **Include ternover_context *ccd.;  80 **Include ternov		124	<pre><ebreyort ebvl.h=""> <restore h="" rginlucin=""></restore></ebreyort></pre>	#include	60
### Cocil headers    Coli file is to implement the fill client_dirtop(struct recover_context 'rcx);	The following functions comprise	123	<pre><ebutil ebutil.h=""> // characteristics to the control of the co</ebutil></pre>	#include	59
### Cocal headers    Cocal headers		122	ize.	#include	58
Cocal headers   Cocal headers	- starting the restoral of a submit object.	121	<eb rb_log.h=""></eb>	#include	57
Cocal headers   Cocal headers	ניום פנדילנים נו אפ דמון אפינונים מוות מד	17.0	<eh eh="" h="" nort=""></eh>	#include	5 0
poration.  ### Cocal handers  ###################################	which define the set of objects to	300	Headers.	*/	ភប
######################################	- creation of submit objects,	119			, υ, υ
######################################	These	118			
**************************************		117	<sys wait.h=""></sys>	#include	51
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poration.  ***********************************				#include	49
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poration.  ***********************************				#include	45
poration.  ***********************************	ebfs_uid_ty		CreateSubmitname */	/* for C	44
poration.  ***********************************	lebfd(rbssID_t			*	4 3
##Include <pre> ##Include <pre< td=""><td>Ü.</td><td></td><td>System headers.</td><td>* Syste</td><td>42 42</td></pre<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	Ü.		System headers.	* Syste	42 42
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#include <rslinterns.h> #include <rslinterns.h #include="" <rslinterns.h=""> #include <rslinterns.h> #include <rslinterns.h #include="" <rslinterns.h=""> #include <rslinterns.h> #include <rslinterns.h #<="" #include="" <rslinterns.h="" td=""><td>char *buf</td><td>101</td><td></td><td>*</td><td>35</td></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h></rslinterns.h>	char *buf	101		*	35
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**************************************	Ε.		code that uses POSIX API'	* The f	33.6
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**************************************	- 7	96	test switches.	* Feature	30
**************************************	ebvl_volidlist_ty **this_submit_volumes,	95			29
**************************************	struct mark_summary *this_submit_files,	94			
**************************************	ebfs mid tv *prev ebd.	2,2			
**************************************	int Ed	91	***********	****	26
**************************************	descriptor	90		*	25
**************************************			ill affect this header.	* *	24
**************************************	_bfinfo_to_submitfile(struct recover_context		This section must list any compile time definition		23
**************************************	ic int		••		22
**************************************				* *	21
**************************************				*	20
**************************************	boolean ty *submitCancelled);	80 0x 44 U	ROTEL Submit	* *	1 8
**************************************	ebvl_volidlist_ty **total_submit_volumes,	82		The	17
**************************************	struct mark_summary *total_submit_files,	81		l	16
**************************************	ebvl_volidlist_ty **this_submit_volumes,	80	T.		
**************************************	*this_submit	79	to be run before and after	*	15
**************************************	_submitiie(struct_recover_comtext		h define the set of objects to	3	14
**************************************	ic int		hese functions are	+ *	13
**************************************				* *	12
**************************************	client dirtop(struct recover context		ctions to create the submitObject and submitElement.	* *	11
**************************************	void		of this file is to implement	*	10
**************************************			se:	** Purpose:	D BD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         * submitObjIDptr(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int
                                                                                                                        total_submit_files
                                                                                                                                        this_submit_files = malloc(sizeof(struct mark_summary));
                                                                                                                                                                                                                                         char **envVar;
                                                                                                                                                                                                                                                        boolean_ty submitCancelled =
                                                                                                                                                                                                                                                                        char wi_type;
                                                                                                                                                                                                                                                                                       char *hostname_SE = NULL;
                                                                                                                                                                                                                                                                                                       ebvl_volidlist_ty *total_submit_volumes = NULL;
                                                                                                                                                                                                                                                                                                                         struct mark_summary *total_submit_files;
                                                                                                                                                                                                                                                                                                                                         ebvl_volidlist_ty *this_submit_volumes =
                                                                                                                                                                                                                                                                                                                                                         struct mark_summary *this_submit_files;
                                                                                                                                                                                                                                                                                                                                                                         char submit_filename[2048];
                                                                                       if((NULL == this_submit_files) ||
                                                                                                                                                                                                                                                                                                                                                                                         int submit_fd;
                                                                                                                                                                                                                                                                                                                                                                                                      int SOstatus = E_SUCCESS;
                                                                                                                                                                                                                                                                                                                                                                                                                       int SEstatus = E_SUCCESS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int ret_status;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      int submitElemID;
                                                                                                                                                                         * The submitElement destructor should free these structures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ObjectsSubmitted (0) - number of total file objects submitted
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                                    rec_api_log_csm(SUB_CSM_NOMEM,
                       rbe_log_stats(0,
                                                                       (NULL ==total_submit_files))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            I) - Indicator of transport the restoral is to be over (SCSI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               I)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (I) - The overwrite policy to use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pointer to callback function to report progress and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Flag if the restoral is to be in original locations
                                                                                                                           11
                     "Could not allocate memory RSTSL_Submit()")
    RSLsubmit.c 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ID of the submit user object created to describe
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                                                                                                                        malloc(sizeof(struct
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                                                                                                                                                                                                                                                          FALSE;
                                       NULL);
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                                                                                                                         mark_summary));
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                                                                                                                           /*
 * Set up the environment variables
                                                                         envVar[0] = submitArgs->mapfile_env;
if (NULL != envVar[0])
                                                                                                         envVar = calloc(2,sizeof(char *));
                                                                                                                                                                                                                                                                                                                          if(0 != SetSOBasics(*submitObjID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             submitElemID = NewSubmitElement(*submitObjID, &SEstatus);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (!inPlace && ((hostName == NULL) || ('\0' ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *submitObjID = NewSubmitObject(&SOstatus);
                                                                                                                                                                                                                                                                                                                                                                                                                                             if (E_SUCCESS != SEstatus)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(E_SUCCESS != SOstatus)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (rcp->rc_backup_app != 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              memset(this_submit_files, 0, sizeof(struct mark_summary));
memset(total_submit_files, 0, sizeof(struct mark_summary));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 * Did not change plug in call for CLI arguments for Port and Name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return rcp-> currentPIptr-> piFuncArray[ PIFuncIndexSubmit ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return(EP_RB_RECOVER_NOMEM);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for Direct Connect, call its plugin version of Submit:
                                                                                                                                                                                                                                                                                                                                                                                         return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return(EP_RB_RECOVER_BAD_ARGS);
                                                                                                                                                                                                         return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                         rbe_log_stats(0, "Could not create new submit elements");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rbe_log_stats(0, "Could not submit new object ID");
return (EP_RB_RECOVER_FATALERR);
                                           μĖ
                                                                                                                                                                                                                         rbe_log_stats(0, "Could not set SO basics");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rbe_log_stats(0, "Hostname or inplace not set");
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                                        strcmp(envVar[0], "\0"))
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if((0 != submitArgs->clientSocketPort) || (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   envVar[1] = NULL;
if (NULL != envVar[0])
                                                                                           else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               * port to connect to.
                                                                                                                                                                                                                                                                                                                           if ((NULL != rcp->rc_human_uidname) &&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if(0 != SetSOAdminID(*submitObjID
                                           ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Set the name of the client who initiated the call and the
                                                        rbe_log_stats(
                                                                                                                                                                                                                                                                            if(0 != SetSOUserID(*submitObjID,
                                                                                                                                                                                                                                                                                                                                                                            return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if ( 0 != SetSEEbciConnect(*submitObjID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (0 != SetSOExecutePhase(*submitObjID,NULL,NULL,envVar,&tmp))
                                        "Restore context has not set human_name and/or effective_name,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            rcp->rc_recovery_flags & RC_RECFLAG_SOURCE_SYSADMIN) ? 1 : 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rcp->rc_recovery_flags & RC_RECFLAG_ADMINISTRATOR) ? 1 :
                                                                                                                                                           return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                            (NULL !=
                                                                                                                                                                                                                                                                                                                                                                                                                          rcp->rc_recovery_flags & RC_RECFLAG_DEST_SYSADMIN) ? 1 : 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0, "Could not set socket port or client name");
return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return(FATAL_ERROR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rbe_log_stats(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rec_api_log_csm(FATAL_ERROR, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     envVar[0] = NULL;
                                                                                                                                                                                                                                                                                                         rcp->rc_effective_uidname))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Could not set the mapfile environment variable\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Needs to be done before Direct connect call
                                                                                                                                                                                                      rcp->rc_human_uidname,
rcp->rc_effective_uid,
rcp->rc_effective_uidname.
                                                                                                                                                                                                                                                        rcp->rc_human_uid,
    RSLsubmit.c 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              submitArgs->clientSocketPort,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             submitArgs->socketClientNm,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NULL != submitArgs->socketClientNm))
                       in RSTSL_Submit()");
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                                                                                                                                                                                                                                                                                                                                                                                        0, "Restore context has not set up the config is RSTSL_Submit()");
                                                                                                                                                                                                                                                                        "Restore context has not set up current work item in RSTSL_Submit(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rcp->rc_client_dirtop = NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (rcp->rc_client_hostname)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (NULL != rcp->rc_client_dirtop)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>`</u>*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if(0 != SetSOVMCheck(*submitObjID
                                                                                                                                                                                    wi_found = GetClientTypeFromConfig(rcp->rc_config,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               * gets changed from a specific location to simply "in place".
                                                                                                                                                                                                                                                                                                                        if(NULL == rcp->rc_workitem_name)
                                                                                                                                                                                                                                                                                                                                                                                                                                          if(NULL == rcp->rc_config)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          boolean_ty wi_found = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RBC_WORKGROUP *wgp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            * work item type.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            * from the config structure. Currently this is just the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 recovery session.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Initialize this at the start of
                                                                                                                                       (FALSE == wi_found)
                                                                                                                                                                                                                                        return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          We need to get information about this work item from
                                                     return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                                                                                                                                                                                                                          return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                                                                                                                                                                                                                                                         rbe_log_stats(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           free(rcp->rc_client_hostname);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              free(rcp->rc_client_dirtop);
                                                                                       "Could not find the work item in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rcp->rc_recovery_flags & RC_RECFLAG_NO_VM_CHECK),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  &SOstatus))
 RSLsubmit.c 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 important if
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RSTSL_Submit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               each recover within a single
                                                                                                                                                                      rcp->rc_workitem_name,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the destination directory
                                                                     the config structure in
    RSTSL_Submit()");
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                                                                                                                                                                                                íf.
                                                                                                          if((NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rcp->rc_overwrite_policy = policy;
                                                                                                                                                                                                                                                                                                                                                                                                                                      if(0 != fill_client_dirtop2(rcp->rc_config
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (NULL == (rcp->rc_client_hostname = esl_strdup((
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   else /* !inPlace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (inPlace)
                                                 if ( 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hostname_SE = (char *) hostName;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* hostName is checked above if !inPlace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             correct target string on the recover command sent to the client.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            prepended along with a : in order for it to build the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cross recoveries for NOS clients require some special
                                                                                                                                                                                                               (NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fill_client_dirtop() handles this correctly.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             handling.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if(NULL == rcp->rc_source_client_hostname)
                                                                               (NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         fill_client_dirtop must always be called because
                                                                                             (NULL
                                                                                                                                                    rec_api_log_csm(SUB_CSM_NOMEM, NULL);
rbe_log_stats(0, "Could not allocate memory RSTSL_Submit()");
return(EP_RB_RECOVER_NOMEM);
                                                                                                                                                                                                                                                        return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                                                                                                                                                                   rbe_log_stats(0, "Internal error:"\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rec_api_log_csm(SUB_CSM_NOMEM, NULL);
rbe_log_stats(0, "Could not allocate memory RSTSL_Submit()");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return(EP_RB_RECOVER_NOMEM);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hostname_SE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return(EP_RB_RECOVER_BAD_CONTEXT);
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II
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                                                                                                                                                                                                             == rcp->rc_client_dirtop)
                                                                                           rcp->rc_workitem_name) && rcp->rc_template_name) &&
                                                  SetSEBasics (*submitObjID,
                                                                              rcp->rc_source_client_hostname))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The destination server name needs to be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           = esl_strdup(rcp->rc_source_client_hostname);
  RSLsubmit.c 7
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                                                                                                                                                                                                                                                                                                      "Could not file client dirtop in RSTSL_Submit(
                  rcp->rc_workitem_name,
                                    submitElemID
                                                                                                                                                                                                                                                                                                                                                  &(rcp->rc_client_dirtop)))
                                                                                                                                                                                                                                                                                                                                                                  hostname_SE,
                                                                                                                                                                                                                                                                                                                                                                               rcp->rc_workitem_name,
                                                                                                                                                                                                                                                                                                                                                                                                            (!inPlace) ? (char *) directory : (
                                                                                                                                                                                                                                                                                                                                                                                                                           inPlace,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             char *)hostname_SE()))
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if(NULL != rcp->rc_client_dirtop)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if(0 != SetSEDestination(*submitObjID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* directory & hostName
/* What about transport
                                                                                                                                                                                                                                                            return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                      if(0 != SetSEScriptName(*submitObjID,
                                                                                                                                                                                                                                                                                         rbe_log_stats(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                                                                                                                                                                                                                                                                                           if(0 != SetSEDirtop(*submitObjID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rbe_log_stats(
                                                                                                                                                                                                                                                                                                                                                                     return (EP_RB_RECOVER_FATALERR);
                                                                                  return
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          witem_name and/or source_client_name,
                                                                                                                                                                                                                                                                         "Restore context has not set dirtop, in RSTSL_Submit()");
                                                                                  (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                   rcp->rc_client_rbuname))
                                                                                                                                                                                                                rcp->rc_client_scriptname)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RSTSL_Submit
     RSLsubmit.c 8
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                                                                                                                                                                                                                                                                                                                                                                                                                rcp->rc_client_dirtop,
                                                                                                                                                                                                                                                                                                                                                                                                                               submitElemID,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            &SEstatus))
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (char *)hostname_SE.
                                                                                                              &SEstatus))
                                                                                                                             rcp->rc_client_rbuname,
                                                                                                                                          rcp->rc_client_scriptname,
                                                                                                                                                           submitElemID,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in RSTSL_Submit()");
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                                                                                                                          if(0 != SetSOTotalSize(*submitObjID,
                                                                                                                                                                                                                                           if(-1 == ret_status)
                                                                                                                                                                                                                                                                                                                                                                                         if(TRUE == submitCancelled)
                                                                                                                                                                                                                                                                                                                                                                                                                           CloseSubmitFile(submit_fd, TRUE, &SEstatus);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             submit_fd = OpenSubmitFile(TRUE,
                                                                                                                                                         *ObjectsSubmitted = (unsigned int) ret_status;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ret_status = push_submit_file(rcp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if(-1 == submit_fd)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if(TRUE == progressCB(0))
                                                                                                                                                                                                           return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                           return(EP_RB_RECOVER_ABORT);
                                                                                                                                                                                                                                                                                                         rbe_log_stats(EP_RB_RECOVER_ABORT, "User abort during submit.");
                                                                                                                                                                                                                                                                                                                                                         /* Lets clean up here!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return (EP_RB_RECOVER_FATALERR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return(EP_RB_RECOVER_ABORT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   submitCancelled = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rbe_log_stats(EP_RB_RECOVER_ABORT, "User abort during submit.");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rbe_log_stats(
0, "Restore context has not set scriptname or client user_name,
    in RSTSL_Submit()");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return(EP_RB_RECOVER_BAD_CONTEXT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* Lets clean up here!
                                                       /* Not sure this one needs to be handled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    to report progress on the submit to the user.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 * right now there is no clean up routine for submitObjects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Progress callback intended to test for cancelation and
                                                                                                                                                                                                                                                                                                                                        right now there is no clean up routine for submitObjects.
                                                                                          &SOstatus))
                                                                                                     total_submit_files,
    RSLsubmit.c 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             *submitObjID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         &submitCancelled);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return( E_SUCCESS );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if(0 != SetSEVolumes(*submitObjID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if(0 != SetSESummary(*submitObjID, submitElemID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if(0 !=SetSOTotalVolumes(*submitObjID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; /* Not sure this one needs to be handled */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* Not sure this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Not sure this one needs to be handled */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   one needs to be handled */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &SEstatus))
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 submitElemID,
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  RSLsubmit.c 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fill_client_dirtop(struct recover_context *rcx)
                                                                                                                                          if (rcx->rc_client_dirtop != NULL)
                                        rcx->rc_client_dirtop = esl_strdup(buf);
if (NULL == rcx->rc_client_dirtop)
                                                                                                                                                                                                                                                                                                                sprintf(buf, "%s%s%s",
                                                                                                                                                                                                                                                                                                                                                                                cross_recover = (NULL != rcx->rc_client_hostname) &&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (rcx->rc_client_dirtop != NULL
&& NULL != strchr(rcx->rc_client_dirtop, ':'))
                                                                                                                                                                                                                                                                                                                                                                                                                                              * cross_recover is a boolean variable used to indicate a cross-recover request.

* This will set the proper target for NOS clients and should NOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for (pwg = rcx->rc_config->pgrouplist; NULL != pwg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     boolean_ty cross_recover;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RBC_WORKITEM *pwi;
RBC_WORKGROUP *pwg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    char buf[4096];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     * if the dirtop already specifies a netware client * target, remove it first.
                                                                                                                                                                    ((
NULL != rcx->rc_client_dirtop) ? rcx->rc_client_dirtop : "/"));
                                                                                                            free (rcx->rc_client_dirtop);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for
                                                                                                                                                                                                                                                                                              ((NULL != pwi && NULL != pwi->nw_clnt_target)
                                                                                                                                                                                                          ((NULL != pwi && NULL != pwi->nw_clnt_target) ? ":" : ""),
                                                                                                                                                                                                                                                                                                                                                 rcx->rc_source_client_hostname, rcx->rc_client_hostname));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (pwi = pwg->pwilist; NULL != pwi; pwi = pwi->next)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (0 == strcmp(pwi->name, rcx->rc_workitem_name))
                                                                                                                                                                                                                                                                              ? (cross_recover
                                                                                                                                                                                                                                                                                                                                                              (0 i = strcmp(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             goto gotit2;
                                                                                                                                                                                                                                               : pwi->nw_clnt_target)
                                                                                                                                                                                                                                                               ? rcx->rc_client_hostname
  RSLsubmit.c 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                    affect others
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    RSLsubmit.c 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                static int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            memset(&prev_ebd, 0, sizeof(ebfs_uid_ty));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if((NULL == rcx) ||
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if(NULL != submitCancelled)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ebfs_uid_ty prev_ebd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int bitfiles_pushed = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int retStatus = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int submit_cont = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                       return -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *submitCancelled = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                (submit_cont)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NULL ==
                                                                                                                                                                                                                                                                                                               /* MCAT_TOP is #define in mcat.h */
for (plane = (-rcx->rc_nplanes)+1; plane <= MCAT_TOP;</pre>
                                                                                                                                                                                                                                                                                                                                                         int plane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ||
||
                                                                                                                             ntrlm = catd_ntrlm(catd);
                                                                                                   for (lmno = 0; lmno < ntrlm;
                                                                                                                                                                                              if (catd == NULL)
                                                                                                                                                                                                                                                                         cat_descriptor *catd = mcat_getcatd(rcx->rc_mcp, plane);
                                                                                                                                                                                                                                    long lmno;
                                                                                                                                                                                                                                                               char *marks = rcx->rc_marks[-plane];
                                                                                                                                          /* catdesc.h */
                                                                                                                                                                                                                                                  long ntrlm;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            this_submit_volumes)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         this_submit_files)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              total_submit_files) |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 total_submit_volumes)
                                                                         /* RSLrbrmain.h */
                                                                                                                                                                     continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                struct mark_summary *total_submit_files,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        boolean_ty *submitCancelled)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ebvl_volidlist_ty **total_submit_volumes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ebvl_volidlist_ty **this_submit_volumes,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int submit_fd,
                                                          (! TLMNO_MARKED(marks,
                                 continue;
    RSLsubmit.c 13
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                                                                                                                                                                                            /* should never happen */
                                                                                                  lmno++)
                                                           lmno))
Page 33 of 80
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                                                                                                                                                                                                                                                                                                                                                                                                 return bitfiles_pushed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(-1 ==
                                                                                                                                                                                                                                                                                                                                                                                                                          return -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     retStatus)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (bitfiles_pushed % 1024)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (1 ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     retStatus = push_bfinfo_to_submitfile(rcx,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if(TRUE == progressCB(bitfiles_pushed))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bitfiles_pushed++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rbe_log_stats(EP_RB_RECOVER_ABORT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *submitCancelled = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              retStatus)
 RSLsubmit.c 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "User abort during submit.");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          total_submit_volumes);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      static int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /* Add mark support */
                                                                                                                                                   else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Returns:
                                                                                                                                                                                                                                                                               if (tlm.te_catelem !=
                                                                                                                                                                                                                                                                                                                                                                                                                                                      char
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rbtree_elem_t
                                                                                                                                                                                                                                                                                                                                                                                             (void)catd_read_trlm(catd, lmno, &tlm, &this_file, (size_t *)NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   long
                                                                                                                                                                                                                                                                                                                         * plane if this tree element is a DS_NONE.
                                                                                                                                                                                                                                                                                                                                       * Note that it might come from a different
                                                                                                                                                                                                                                                                                                                                                     * Get the corresponding catalog element
                                                                                                                                                                               catlm_catd = catd;
                                                                                                                                                                                              catlmno = tlm.te_catelem;
                                                                                                                      int clmplane;
                  dsnone_get_realcat(rcx,
                                                             * the real corresponding catalog element
                                                                                                                                                                                                                                       * not DS_NONE -- the common case
                                                                             This is a DS_NONE record.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -1 for file not submitted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *catlm_catd;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *fname = "<name unknown>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tlm;
   RSLsubmit.c 15
                                                                                                                                                                                                                                                                                                                                                                                                                                       directives_size=0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            namesize = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     *directives_list=NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *this_file;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nbytes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         buf[100];
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   catlmno;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 clm;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ep_status;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              long lmno,
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                 lmno,
                  piane,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         **total_submit_volumes
                  &catlmno, &clmplane);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NO error encountered.
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                                                                                                                                    memset(&zero_bitfileid, 0, sizeof(ebfs_uid_ty));
                                                                                                                                                                                                                                                   if((NULL == *total_submit_volumes) || (0 != ep_status))
                                                                                                                                                                                                                                                                                                                                    *total_submit_volumes = ebvl_genvolidlist(*total_submit_volumes,
                                                                                                                                                                                                                                                                                                                                                                                                                                          if((NULL == *this_submit_volumes) || (0 != ep_status))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           add_to_summary(total_submit_files, &clm);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         add_to_summary(this_submit_files,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *this_submit_volumes = ebvl_genvolidlist(*this_submit_volumes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (void)catd_read_catlm(catlm_catd,
                                                                                                                                                                                              rbe_log_stats(
    0, "** warning: cannot maintain volume list for submit."
                                                                                                                                                                                                                                                                                                                                                                                    (void)catd_read_catlm(catlm_catd,
                                                                                            11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 catlm_catd = mcat_getcatd(rcx->rc_mcp, clmplane);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (catlmno ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            * but not in any catalog file. This case can also * occur for leading directories that are "above"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           * in the backup catalogs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                * the starting point for a work-item.
                                                                                         memcmp(&zero_bitfileid,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ignore such directories, unless debugmode is on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          There is a special case for the root ("/")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (void) catd_read_trlm(catd,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              size_t len;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         push_bfinfo_to_submitfile
                                                            sizeof(ebfs_uid_ty)))
                                                                           &clm.ce_bitfileID,
  RSLsubmit.c 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11)
                                                                                                                                                                                            skipping it.");
                                                                                                                                                                                                                                                                                                                                                                                 skipping it.");
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        catlmno,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           It's in the tree file
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          &clm);
                                   catlmno,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* len 0 filters out "/"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lmno, &tlm, &tname, &len);
                                                                                                                                                                                                                                                                                              ebvl_EbfsIdType_BitFile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        kep_status);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         &clm,
                                                                                                                                                                                                                                                                                 &ep_status);
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                                   &clm, &fname);
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   Wed Jan 02 17:30:26 2008
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00 17:30:36 2008 DSI submit o 18	Wed Jan 02	Wed Jan 02 17:30:26 2008 BSI submit c 17	Mad lan 09
		0, "** warning: could not submit marked file for restore."	930 2
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		directives_list, /* directives */	926 1
		/* directive_size */	
		namesize > 0) ? fname: NULL,	925 1
		(	924 1
		clm.ce_mode,	
	· ·	&clm.ce_bitfileID,	921 1
		<pre>if(0 != WriteBitfileInfoToSubmitFile(fd,</pre>	
		directives_size = 0;	
		else	
		<pre>directives_size = strlen(directives_list); }</pre>	912 2 913 1
		{	
		/* done in case string not null terminated */	
		<pre>directives_list = NULL; }</pre>	907 2 908 1
		) }	904 1
<pre>/* end of push_bfinfo_to_submitfile() */</pre>		<pre>rcx-&gt;recx_qirectives_p,</pre>	903 2
-	959 1	<pre>directives_list=RSTSL_get_directives_for_file(</pre>	
	957 1 958 1	<pre>if ((NULL != rcx-&gt;recx_directives_p)    (NULL != fname)) {</pre>	900 1
<pre>stderr, "Unable to generate volumes needed report,</pre>			
~		return 0;	897 2
* if (rcx->ebvlok && NULL == rcx->ebvllist)	954 1	"file \"%s\"; skipping it.", fname);	
* & &ep_status);		a_log_stats(	
ebvl_EbfsIdType_BitFile,	1 7 6	II(U != SSIDZeDIG(&CIM.Ce_SSID, &eDG))	893 1
rcx->ebvllist, &clm.ce_bitfileID,		1	
* rcx->ebvllist = ebvl_genvolidlist(	949 1 950 1	namesize = (size_t)cim.ce_nameien;	890 2
rcx->ebvlok)			
* now add bitfile id to volumes needed report	946 1	* name may contains substrings as in netware	888 2
		*	
<pre>/* * Creation and destruction of volid's now taks place</pre>	943 1 944 1	<pre>(void)catd_read_catlm(catlm_catd, catlmno, &amp;clm, &amp;fname); if (clm.ce_status &amp; CESTAT_RENAME)</pre>	884 1 885 1
return 1;	941 1		
1	939 I		
Sachar: since buf is uninitialized and function is push to submitfile(fd. buf. strlen(buf)):	938 1	<pre>/* * If this is a renamed element,</pre>	879 1 880 1
#if 0 /* G.	937 1		
<pre>memcpy(prev_ebd, &amp;ebd, sizeof(ebfs_uid_ty));</pre>	935 1	}	
			874 2 875 2
<pre>" skipping file %s.", fname); return 0;</pre>	931 2 932 2	ackup	873 2

	0000			
ETH OT ENTETHOSET TO ()	F. C.			
}				
/* null */	1056 2			
p = buf; while $((*p++ = *q++) != ',0')$	1053 1 1054 1			
* Copy the rest, up to and including the comma, to output buf $^{st}/$	1050 1 1051 1			
<pre>for (q = tmpbuf; *q == '0'; q++) {     /* null */ }</pre>	1044 1 1045 2 1046 2 1047 1			
* Skip over leading 0 characters */	1040 I 1041 1 1042 1	* end or pusn_co_submicrife() */	K	1000
**		;	return	
<pre>tmpbuf[32] = '\0';</pre>	1038 1	wrote;	return wrote; #endif	997 1 998 1
Q += 8;		= save_errno;	errno =	995 1 996 1
1 >>= 4;	wrote); 1033 3	0, "** wanted to write %d, wrote %d", nbytes, wro	Teda	993 2
hexdi		<pre>/ rbe_log_stats(0, "\n** Trouble writing submitfile.");</pre>	rbe_1	991 2
		short write error	* sh	
Q += 8;	1027 2		<b>*</b>	
register unsigned long ul;		<pre>cop: (= (int)nbytes)</pre>	save_errn	
{ int j;	1023 2 1024 2	= loomrw(fd. buf. (int)phytes, write no eintr);		
ř		<pre>(void)write(fileno(stdout), buf, nbytes);</pre>		982 2 983 1
q = tmpbuf;	1020 1	(aebugmoae)	1I (deb	980 1 981 2
<pre>memcpy(longvals, ebfsidp, 16);</pre>	1018 1	\cdot	. h	
		wrote;	int	
<pre>char tmpbuf[ 33 ]; char *hexdigits = "0123456789abcdef";</pre>	1014 1015		#if 0	975 1 976 1
int i;		uint_t nbytes)	1	974
register char 'p; register char 'q; unsigned long longvals[4];	1010 1 1011 1 1012 1	bmitfile(i	push_to_sub	971 972 973
				1 0
static void  ebfsid2str_lz(ebfs_uid_ty *ebfsidp,  register char *huf)	1006 1007		* * *	967 968
			*	966
/* * Convert an EBFS ID to string form. Elide leading zeros. */	1002 1003 1004	s: -1 for error encountered otherwise number of bytes written	/* Returns:	964 965
	L			

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<pre>errno_ty RSTSL_get_catalog_info( const time_t time,</pre>	1108 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 11120 1121 1122 1123 1123 1130 1131 1132		
** information  ** EP_RB_RECOVER_NO_CATALOG - error get  **  ***  **************************	1102 1103 1104 1105 1106		
** Return Codes: F SUCCESS - if the cattalog exists and able	1100	? -1 : 0; of ssID2ebfd() */	return err /* end
** catType - reference to the string which will conta  ** catType - reference to the string which will conta  ** of catalog for the specified backup  **  ** Purpose: Function to retrieve backup level, catalog type,	1095 1096 1097 1098 1099	ss_find1(ssidp, &ss, 0)) == 0) bfdp, &ss.ss_dirID, sizeof(ebfs_uid_ty));	1076 1 if ((err = ss_f 1077 2 { 1078 2 memcpy(ebfdp,
** Outputs: level - reference to the level string to be outp  ** numrec - reference to the string which will conta	1091 1092 1093 1093	<pre>:t((char *)ebfdp, 0, sizeof *ebfdp);</pre>	1069 1 /* 1070 1 */ clobber it, to 1071 1 */ 1073 1 (void) memset((char
	1086 1087 1088 1089	rbssID_t *ssidp, ebfs_uid_ty *ebfdp) set_t ss; o err;	static int ssID2ebfd( frame in the state ind
Wed Jan 02 17:30:26 2008	Page 41 of 80 V	sslD2ebfd	Wed Jan 02 17:30:26 2008

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			*catType=esl_strdup("NONE");	l
			case SSCAT_NONE:	1187 2
			"Cacifpe-esi_sciaap( Exitato //	
			case SSCAT_EXPIRED:	
			break;	
			*catType=esl_strdup("DELTA");	1182 2
			break;	
			case SSCAT_FULL:	1177 2
			case SSCAT_SORTED:	
			*catType=es1_stroup("UNSORTED"); break:	1173 2
			case SSCAT_UNSORTED:	
			break;	
			case SSCAT_PARTIAL: *catfivne=es1 strdin("PARTTAL"):	1169 2
				2 -
			(*level) = (char *)calloc(1,2); (*level)[0] = cathdr.ch_level;	1164 1
			*/ catalog	1163
			*head of the	1162 1
			$^{\star}$ which is copied from the	1161 1
			a .	-
		***************************************	•	- н
			* a ulong	1158 1
			* because cannot strdup	1157 1
			*numrec=(char *)malloc( ULONG_TO_CHAR_SIZE ); /* must malloc memory	1156 1
			<pre>}while ((time !=cathdr.ch_time)&amp;&amp;(     plane_count&gt;=number_of_planes));</pre>	
				1153 2
			* we have not traversed through the entire list	1152 2
			/st while the backup we are looking for has not been found,	1151 2
			<pre>plane_count; /* decrement counter, must go into negatives */</pre>	1149 2
			<pre>return(EP_RB_RECOVER_NO_CATALOG); }</pre>	1146 3 1147 2
				1145 3
			*catalog */	
			* chere is still not	1142 2
			e is n	
	return E_SUCCESS;		return(EP_RB_RECOVER_NO_CATALOG); }	1138 3
	break;		*	
	<pre>break; default:     *catType=esl_strdup("UNKNOWN");</pre>	1189 2 1190 2 1191 2	*/ catdPtr = mcat_getcatd(rcp->rc_mcp, plane_count);	1134 2 1135 2
		1 490 1 1 00	TOTOL GET Carging ILLIO	rage 43 01 ou

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17
                                   struct timeout_array
                                                                                                                                   static
                                                                                                                                               static void unregister_rpc( void );
                                                                                                                                                                              *
                                                                                                                                                                                                                                                            #include
                                                                                                                                                                                                                                                                         #include
                                                              static boolean_ty
                                                                                                                                                                                                                                              #include
                                                                                                                                                                                                                                                                                        #include
                                                                                                                                                                                                                                                                                                                                #include
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                                                                                                                                                                                                                                                                                                                                                                                   #include
                                                                                                                                                                                                                                                                                                                                                                                                  #include
                                                                                                                                                                                                                                                                                                                                                                                                                            #include <esl/inout.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ** The following provides an RCS id in the binary that can be located ** with the what(1) utility. The intent is to keep this short.
                                                                                                                                                                                                                                                                                                    #include
                                                                                                                                                                                                                                                                                                                   #include
                                                                                                                                                                                                                                                                                                                                            #include
                                                                                                                                                                                                                                                                                                                                                                                                                                             #include
                                                                                                                                                                                                                                                                                                                                                                                                                                                         #include <esl/c_portable.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static char
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #if !defined(lint)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ** Basic idea here: Module for coding the Process Manager thread
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*
** Copyright 1996,1997 EMC Corporation
*/
                                                                                                                                                                           local prototypes
                                                                                          local data */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #define _POSIX_SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #define _XOPEN_SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Compile-Time Options:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mission Statement: This is the entry point for the Process Manager
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EDMProcessManager.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primary Data Acted On.
                                                                                                                                   void
                                                                                                                                                                                                                                                                                                                                                                                   <syslog.h> <unistd.h>
                                                                                                                                                                                                                     <EDMFinalStatus.h>
                                                                                                                                                                                                                                 <restore/EDMREProgressApi.h>
                                                                                                                                                                                                                                                <restore/REprogmsg.h>
                                                                                                                                                                                                                                                             <restore/restore_api.h>
                                                                                                                                                                                                                                                                         <restore/restore_engine
                                                                                                                                                                                                                                                                                        <EDMmain.h>
                                                                                                                                                                                                                                                                                                   <EDMRestoreEngLog.h>
                                                                                                                                                                                                                                                                                                                   <EDMRECommandApi.h>
                                                                                                                                                                                                                                                                                                                                                                       <stdlib.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                        <es1/ep_xopen.h>
                                                                                                                                                                                                                                                                                                                               <EDMProcessManager.h>
                                                                                                                                                                                                                                                                                                                                            <pthread.h>
                                                                                                                                   start_completion( EDMREGlobalStatus );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RCS_id [] = "@(#)$RCSfile: EDMProcessManager.c,v
                                                            completion_signalled = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USE_SUNRPC - Compile source with sunrpc
   EDMProcessManager.cc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     unable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 unable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "$Revision: 1.23 $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "$Date: 1997/02/06 20:49:15 $"
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hv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    compile with this define compile with this define
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           thread.
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ISRestoreTimedOut(IN time_t lastguitime, IN time_t incurrentstate,
IN int status)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tval[MAX_GLOBAL_STATUS_VALUE+1] = {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5*SECONDS_PER_MINUTE, 5*SECONDS_PER_MINUTE ),
(5*SECONDS_PER_MINUTE, 5*SECONDS_PER_MINUTE ),
(SECONDS_PER_YEAR, 2*SECONDS_PER_HOUR ),
(3*SECONDS_PER_HOUR, 5*SECONDS_PER_MINUTE ),
(10*SECONDS_PER_DAY, 5*SECONDS_PER_MINUTE ),
(2*SECONDS_PER_DAY, 5*SECONDS_PER_MINUTE )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        time_t
                                                                                                                                                                                                                                                                                                                                                                                                                  return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else if ( (t - tval[status].timeoutlen) > incurrentstate)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if ( (t - tval[status].guideadlen) > lastguitime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    μÉ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                time_t t = time(NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // Timeout value
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (status <
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (status > MAX_GLOBAL_STATUS_VALUE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          return TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     status =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        guideadlen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       timeoutlen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *
EDMProcessManager.cc 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    all exiting conditions use same timeout */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gui is dead value
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // Execute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // Pre phase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // Starting
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REProcessManager (void *buff)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 !reader_finish_rcvd | | !finish_rpc_recvd )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  while (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              setGlobalStatus ( EDMRE_STATE_STARTING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       prov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (PopCommand( 1, &command, &status ))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   result;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  command;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                status;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* wait for next command */
                                     continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (completion_signalled)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              internal_status = getGlobalStatus( &status_time
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* check for completion timeout or idle timeout */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (COMMAND_RECORD_GET_FAILED != status)
                                                                                                                                                                                                                         else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   log error if not 'normal' queue empty error */
 EDMProcessManager.cc 3
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Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (TRUE == IsRestoreTimedOut( getLastRpcTime(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EDMRestoreEng_logent( __FILE__, __LINE__, LOG_ERR, MESSAGE_RECORD_GET_FAILED, 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reader_finish_rcvd = FALSE;
catus internal_status;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            status_time;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        finish_rpc_recvd = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *output_ptr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *input_ptr;
                                                                                                                                                                                                                                                                                                                                                                                                          `*
                  keep waiting in case thread wait got interrupted */
                                                                                                                                                                                       (TRUE == IsRestoreTimedOut( getLastRpcTime(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REProcessManager
                                                                                                                                                                                                                                                                                                                                            EDMRestoreEng_logent(
                                                                                                                                                                                                                                                                                                                                                                                                  let restore service module clean up, stop rpcs
                                                                                                                                                                                                                                                                                                                                                                                                                                        ۲.
۴
                                                                                                                                           if already exiting, leave state alone */
                                                                                                                               (internal_status >
                                                                                                                                                                                                                                                                                                                                                                                                                                     (!finish_rpc_recvd)
                                                                                                              start_completion( EDMRE_STATE_TIMEOUT );
                                                                                start_completion( internal_status );
                                                                                                                                                                                                                                                                                                                                                                          unregister_rpc();
                                                                                                                                                                                                                                                                                                                                                                                         result = EDMRE_Finish( NULL, NULL );
                                                                                                                                                                                                                                                                                                               MESSAGE_SHUTDOWN,
                                                                                                                                                                                                                                                                                                "Shutting down after timeout awaiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          status );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "PopCommand failed;
                                                                                                                                0
                                                                                                                                                                                                                                                                                                                           FILE,
                                                                                                                                                                                                                                                    /* escape while to exit */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* until time to exit */
                                                                                                                                                          internal_status ) )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                internal_status )
                                                                                                                                                                                                                                                                                                                                                                          /* cleanup csc i/f */
                                                                                                                                                                                                                                                                                                           0,
  Wed Jan 02 17:30:26 2008
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                                                                                                                                                                                                                                                                                                                              __LINE___, LOG_ERR,
                                                                                                                                                                           ), status_time,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    , status_time,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            status = %d",
                                                                                                                                                                                                                                                                                 sync");
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                                                                                                                                                                                                                                                                                                                               2
                                                                                                                                                                                                                                                                                                                                                             N
                                case COMMAND_MARK_OBJECT:
    result = EDMRE_MarkObject( input_ptr, &output_ptr);
                                                                                                                                            switch( command
                                                                                                                                                                                                                                                                                                H.
                                                                                                              case COMMAND_GET_RESTORABLE_OBJECTS:
                                                                                                                                                                                                                                                                                                                               \*
                                                                                                                                                                                                                                                                                                (PopRpcInput( &input_ptr, &status ))
                                                                                                                                                                                                                                                                                                                            not in completion seq;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (completion_signalled)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMMAND_READER_FINISHED == command
                                                                                                                                                                                                                                                  EDMRestoreEng_logent( __FILE__, __LINE__, LOG_ERR, MESSAGE_POP_RPC_INPUT_FAILED,
                                                                                                                                                                                                                                                                                                                                                              continue;
/* check if both finishes recvd, else keep waiting */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 got some command; see if we're in completion sequence:
                    break,
                                                                                            result = EDMRE_GetRestorableObjects(
                                                                                                                                                                                          continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        else if (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (COMMAND_FINISH == command && !finish_rpc_recvd)
EDMProcessManager.cc 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EDMRestoreEng_logent(_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reader_finish_rcvd = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   unregister_rpc();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /* let restore service module clean up, stop rpcs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  finish_rpc_recvd = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (PopRpcInput( &input_ptr, &status ))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (!finish_rpc_recvd) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REProcessManager
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           unregister_rpc(); /* cleanup csc i/f */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               result = EDMRE_Finish( NULL, NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   result = EDMRE_Finish( input_ptr, &output_ptr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EDMRestoreEng_logent(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* let restore service module clean up;
                                                                                                                                                                                                                                                                                                               get pointer to rpc input argument structure */
                                                                                                                                                                                       /* ??? keep trying or return ?? */
                                                                                                                                                                                                                                     'PopRpcInput failed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* exit */
                                                                                                                                                                                                        status, command );
                                                                                                                                                                                                                                                                                                                                                                                                                         command );
                                                                                                                                                                                                                                                                                                                                                                                                                                                        MESSAGE_INVALID_COMMAND,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MESSAGE_POP_RPC_INPUT_FAILED, 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "PopRpcInput failed;
                                                                                                                                                                                                                     status = %d Lost command: %d"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       _FILE_
                                                                               input_ptr, &output_ptr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         && !reader_finish_rcvd)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             status = %d", status);
  Wed Jan 02 17:30:26 2008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wed Jan 02 17:30:26 2008
                                                                                                                                                                                                                                                                                                                                                                                                                                         "cmd value: %d",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   stop rpc's */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LOG_ERR,
                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *
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Page 54 of 80	SO	0000 00.00.7 t 00 and Poly	FDMD:::::::::::::::::::::::::::::::::::	000 47-00-00 0000	
: :			result = COMMAND_RESULT_FAILURE;		274 3
			CIIC Value.		273 3
			INVALID_COMMAND,		272 3
			estoreEng_logent(FILE		
			break;	O, E	269 3
				(	268 3
			COMMAND SET BACKIID FOR TIME.	Case ]	266 3 267 3
			input_ptr, &output_ptr);		
			' ND'	cas	
			ŧ		263 3
			ND_SET_FIRST_BACKUP:	cas	
			result = EDMRE SetNextBackup( input ptr. &output ptr );	case	258 3 259 3
		***************************************	<pre>command_set_previous_backup:   result = EDMRE_SetPreviousBackup(</pre>	case	
			preak;		254 3
			COMMAND_GET_ALL_TIMES: result = EDMRE_GetAllBackupTimes( input ptr	case	251 3 252 3 253 3
			input_ptr, &output_ptr);		
				Q	249 3 250 3
	<pre>getGlobalStatus(NULL) ); buff;</pre>	302 1 exit ( 9 303 1 return h	r_rpc(); /* await dispatcher finish command */		
		300 1 #enair	else start completion( internal status ):		244 3
,	setGlobalStatus( /* good exit ?? */ 0 );	# 0 5 5 5 6	<pre>/* if already exiting, leave state alone */ start_completion( EDMRE_STATE_SUCCESSFUL );</pre>		242 3 243 3
/* good exit	er_finish_rcvd	if (	מטימימט_רוווי / /		241 3
its already set */	I think we just leave global status as its already set	297 1 #if 0 /*	<pre>&lt; (internal_status = getGlobalStatus(</pre>		240 3
		294 2 } 295 1 }			238 3 239 3
is = %d", status );	status		MRE_Finish( input_ptr, &output_ptr );		237 3
	"PushResult failed;	293 3	COMMAND_FINISH:	case	236 3
ro_QUEUE_RESULT, 0,	MESSAGE_FAILURE_TO	292 3	break;		234 3
	TTWT October 1000st / TTT T I INT	, ω ι	result = EDMRE_FindRestorableObjects(		233 3
-	(PushResult( result, command, &status) )	2	B		
	_	286 3 287 2 }		#endif	229 3 230 3
1	status );	285 4			
failed;	"PushRpcOutput	284 4	res		228
0, 	######################################		ut to allow continuation after success.	#if 0 /	227 3
FILE,LINE, LOG_ERR,	EDMRestoreEng_logent(		start ( input ptr		225 3
) )	<pre>if (PushRpcOutput( output_ptr, &amp;status) ) {</pre>	280 3			
	result != COMMAND_RESULT_FAILURE)		result = FDMRF Submit ( input ptr Southur ptr )	cas	221 3
<pre>IF command succeeded */</pre>	push result arg structure pointer,	277 2 /*		ω (	
		275 2 }			218
1 490 0 701 00					T

Page 55 of 80	307  /* local function 309    static void unreg: 310    { 311    sleep( 1 312    unregiste 313    return; 314    }
EDMProcessManager.cc 7 W	<pre>void unregister_rpc( void ) sleep( 1 ); /* allow last rpc (finish) response unregister_csc( ); /* stop RPC traffic */ return;</pre>
Wed Jan 02 17:30:26 2008 Page	317 319 320 321 322 */ 323 324 325
Page 56 of 80 EDMProcessManager.cc 8	<pre>/* local function to start completion sequence static void start_completion( EDMREGlobalStatus) {     setGlobalStatus( status );     SendFinalStatus();     completion_signalled = TRUE;     return; } </pre>
Wed Jan 02 17:30:26 2008	equence */ alStatus status ) /* signal dispatcher */

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EDMProcessManager.cc 9	
Page 57 of 80	Page 57 of 80
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EDMProcessManager.cc 10	
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Wed Jan 02 17:30:26 2008	EDWF10cessManager.cc 12	rage ou or au	And 281.05 17.30.50 5000	EDMFTocessMariager.cc iii	rage 39 OI oo
Wed lan 02 17:30:28 2008	FDMProcessManager of 12	Page 60 0 0 1 80	Wed Jan 02 17:30:26 2008	EDMProcessManager oc 11	Page 59 of 80
Wed Jan 02 17:30:26 2008		Page 60 of 80	Wed Jan 02 17:30:26 2008		Page 59 of 80

		141-141		47.00.00	Wad Ian 00
			<edmredrainapi.h></edmredrainapi.h>	#include <edmredr< td=""><td>63</td></edmredr<>	63
			<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		5 F
			CW:II/		6
			CCI.II>	#include <=DMRE_C	60 00
			ressin>	VEDMET.	ם מ
			<eumprocessmanager.n></eumprocessmanager.n>		57
		-	_		56
			1.h>		55
			:/csc_EDMRestoreEng.h>	#include <restore csc<="" td=""><td>53</td></restore>	53
			Charles	9	,
			Comm. h>	include	51
			Vacti/est_ptatite:://	#include <ucii es<="" td=""><td>5 4 0 4</td></ucii>	5 4 0 4
		109 }	SL_CORE. NO	TUCTUDE	6 0
tarted: -d menas debug */	<pre>/* default is how we were started:</pre>		<li><logging logging.h=""></logging></li>	include	47
	eturn G_debug;	108 1			
				include	45
i	return TRUE:	106 1	sname.h>		44 (
on manually via adb. its on */	f (debumode) /* if turned	1 #6110	h'> 1.11.	#include <thread h=""></thread>	7 7 7
DEBUG derined, we must be in debug mode "/	t . / II	٠	.n>		4 6
must be in debut mode +/	i. h			#include <string.h></string.h>	40
	ef DEBUG	102 1 #ifde	.h>	#include <stdarg.h></stdarg.h>	39
			560-115		٠
	Ts De bii gOn ( )		_xopen/		ا 17
	*/ hoolean tv	98 */	<es1 c_portable.h=""></es1>	#include <es1 c_i<="" td=""><td>35</td></es1>	35
****		,	,	!	ě
******************	***************************************	97 ***	XOPEN SOURCE unable to compile with this define set */	/* #define _FOST.	بى بى كا ئى
	ntended caller: internal only.	95   ** In		11 3 6 5	
		*		#endif	30
	,	*	"\$Date: 1997/02/06 20:49:15 \$";		29
ell other subsystems	urnose: This routine can be used to tell other subsystems	92 ** P1	rcs_id [] = @(#/\$rcsiin: 1 23 \$ "	צרמרוני כוומו	3 6
	TRUE if debug is on.	90		efined(lin	26
	Return Codes:	*	i i i i i i i i i i i i i i i i i i i		25
		*	1) utility. The intent is to keep this short	with the what	24
	Ontonts: None	87 ***	nrowides en	/*	22
	Inputs: None	+ + + +		-	
		*			20
	Routine: IsDebugOn		here: Module for UNIX specific daemon initialization	Basic ídea	19
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		3 *	not set, assume DCE support.	* * * *	17
********************	**************************************	81 /***	1	-	
בס בסונוומות דדווב מדאפ	דר רזומד החוווומזזמד דוזבמד 60'	טרטר	USE_SUNRPC - Compile source with sunrpc	* *	16
to command line	ic char **commandlinearce. /*	 2	Options:	** Compile-Time	16
<pre>;; Variable which will disable forking */</pre>	<pre>ic int G_debug = FALSE /*</pre>	77 stat	ACTEA Un:	Frimary Dava	13
					11
	cic rpc_if_handle_t if_spec;	75 stat		* *	10
	def _XOPEN_SOURCE	73 #undi	<pre>file contains the callbacks from the main function which</pre>	K K	9
	Tude	‡ !	יייייי איז ליונט וומדוו מפר ארנט דרדנט דרסד	2	
	1		† 5	** Mission State	» 7
	#define _XOPEN_SOURCE		J. C	** EDMRestoreEng.	6
	and certain signal structure	* *		*	ъ
for signal funtion definitions	Need to define _XOPEN_SOURCE for signal fu		1996,1997 EMC Corporation	Copyright	u p
י ששלי טר טי טט	- Control and the control of the con			1 /*	-

				_	
		_			
			1		
			End of kill_handler() */	} \	164
			exit(sigval);	1 exi	162 ]
			"Shutting down at %s due to signal %d", ctimebuf, sigval);		160 1
			EDMRestoreEng_logent(	1 (void)	159 1
			/* Overlay newline with null - buf should always be 26 bytes long */ ctimebuf[ strlen(ctimebuf) - 1 ] = 0;	1 /*	156 157
			<pre>ctimebuf = ctime(&amp;current_time);</pre>	1 cti	154
			Get the current time */ id) time(&current_time);	1 /* Get 1 (void)	151 152
	return;	203 1 204	(VOId) EDMRESTOTEENG_LOGENT(FILE, _LINE, LOG_ERR, MESSAGE_NO_LOGIN, 0,FILE, _LINE, LOG_ERR, MESSAGE_NO_LOGIN, 0,FILE, _LINE, LOG_ERR, MESSAGE_NO_LOGIN, 0,FILE,, LOG_ERR, MESSAGE_NO_LOGIN, 0,FILE, MESSAGE_NO_L	7	146 147 148
status, (ebuit ? ebuit : "Unknown error") );	st.	200 2 201 1	11		
FILE, _CANNOT_UNREGISTER REGISTER_SERVER fa	<pre>(void) EDMRestoreEng_logent(</pre>	197 2 198 2 199 2	he unregister fails, report the patus != error_status_ok )	1 /* 1 if 2 {	141 142 143
<pre>csc_get_error( status );</pre>	ebuff = (char *)	194 2 195 2	Unregister the intertace */ pid) csc_unregister_server_interface(&if_spec, &status);	1 /* Unr 1 (void)	138 139
s, report the problem, but continue */	<pre>/* If the unregister fails, re; if ( status != error_status_ok</pre>	192 1 193 1	its, it calls t	*	
<pre>rver_interface(&amp;if_spec, &amp;status);</pre>	<pre>/* Unregister the interface */ (void) csc_unregister_server_interface(&amp;if.</pre>	189 1 190 1	*ctimebuf;  *ebuff = NULL;	1 char	133
	char *ebuff = NULL;		status_t status;		130
	unregister_c	H	void kill_handler( IN int sigval )	*/ static	128 129
		CO	**************************************	* * *	127
nal and process manager before exit	** Intended caller: internal  **  *******************************	180 181	Intended caller: internal only.	* * * * * * *	124
handles the csc_unregister	Purpose: This	178 179	SIGQUIT,  SIGTERM. Each results in a log entry and an exit.		123
	** Return Codes:  ** none	175 176	exits with the number of the signal receive	* * * * * *	120 121
ages telling what action is being taken.	** Outputs: Will log messages	173 174	odes:	* * *	118 119
	Inputs: r	170 171 172	<pre>Inputs: int sigval - the signal which was received. Outputs: Will log messages telling what action is being taken.</pre>	* * * * * * *	115 116 117
	** Routine: unregister_csc	168	Routine:kill_handler	* * * *	113
**************************************	\***********************************	167	\`````````````````````````````````````	* * *	1111
unregister_csc Wed Jan 02 17:30:26 2008		Page 64 of 80	kill_handler Wed Jan 02 17:30:26 2008	Page 63 of 80	Pag

*			
	295		
<pre>/*     * We want to ignore everything except those we have set up     * above so remove those from the list.     */</pre>	287 1 288 1 289 1 290 1		
<pre>/*     * Setup mask so we can specify what signals we will ignore.     */     (void) sigfillset( &amp;sactions.sa_mask );</pre>	282 1 283 1 284 1 285 1		
* Assign handler to each signal we are interested in.  */  (void) sigaction( SIGTERM, &sactions, NULL );  (void) sigaction( SIGQUIT, &sactions, NULL );  (void) sigaction( SIGQUIT, &sactions, NULL );	275 1 276 1 277 1 278 1 279 1 280 1		
<pre>/* Setup the signal handler. */ sactions.sa_handler = kill_handler;</pre>	272 1 273 1		
<pre>/*     * Add signals that we want to handle  */ (void) sigaddset( &amp;sactions.sa_mask, SIGTERM ); (void) sigaddset( &amp;sactions.sa_mask, SIGINT ); (void) sigaddset( &amp;sactions.sa_mask, SIGQUIT );</pre>	265 1 266 1 267 1 268 1 268 1 270 1		
/*  * Set an empty list so we can set signals we want to handle  */  (void) sigemptyset( &sactions.sa_mask );	260 1 261 1 262 1 263 1	ery repherent of the	,
ZERO( sactions );		/* () ONES: NETCOSE	
	is easier\n"):	<pre>fprintf (stderr,"Usage: %s [-d]\n", progname); fprintf ( stderr "-d keen the daemon from forking so debugging</pre>	228 1 229 1
*/ Void daemon_catch_interrupts()	253 254	/* Print out usage stmt. */	226 1
** Intended caller: internal only.  **  *******************************	250 251 252	*/ static void display_usage (IN char *progname)	_
** Purpose: Sets up signals for service. On NT we will have to  ** consider what OS constructs to replace signals with.  ** In this case we are catching SIGTERM, SIGINT, and  ** SIGQUIT and ignoring anything else.	**************************************	* Special Considerations:  * None.  ***********************************	21 / 21 8 21 9 21 9 22 0 22 1
** Return Codes:  **  None	2442	Error Outputs and Side Effects: Prints usage.	215
** Outputs: None	240		213
** Inputs: None	237 238 239	י אווייטיז מוציבמאצ מופ מצמפפי ל Call Arguments:	211
** ** Routine: daemon_catch_interrupts	235 236	display_usage	208
***************************************	***************************************	Function Name:	207
	+ + + + + + + + + + + + + + + + + + +	*****	200

exits with an error when the user is not root Checks user's ID and determines if the user is allowed to execute service.  If there are no constraints then this function may be blank.  er: internal only.  ***********************************	utputs:  urpose:  urpose:  ntended call  ************  daemon_chec  /*				
		* * * * * * * * * * * * * * * * * * * *			
* * * * * *	ontino. Asomon check proper ID	* * * *	<pre>(void) thr_sigsetmask( SIG_SETMASK, &amp;sactions.sa_mask, NULL );</pre>	(void) thr_sigsetmask( SIG_:	
*************	**************************************	303 /**	the mask. Since no other threads have been started, threads will get this mask.	<pre>* Set the mask. Since no oti * all threads will get this */</pre>	296 1 297 1 298 1
Wed Jan 02 17:30:26 2008	daemon_check_proper_ID	Page 68 of 80	Wed Jan 02 17:30:26 2008	daemon_catcn_interrupts	rage or or au

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				•	Č
		***************************************		~	378
				, ,	376 2
			exit(1);		
			(void) display usage( argv[0] );		373 3
		***************************************	break;		
			debugmode = 1;		370 3
			G debug = TRUE;		
		406	case 'd':		
*:	(void) esl_log_init(commandlineargs[0]	1			
*	/* Pass in argv[0], the program name */	<b>\$</b> 4	switch(opt)		365 2
			Te ((opt = geropt(argc,argv, arg)) != EUr )	wnite	
	d initializa logging()	401 Void	// CDt - 2010Dt (argg argg; "LD")  - 505		
			commandlineargs = argv;		361 1
		399 */	opt; /* Process options ^/	int	
**************	**********************************	* * *	74		358 1
		* *	<pre>commandline(int argc, char *argv[])</pre>	void parse_c	357
	Intended caller: internal only:	395		*	355
	these things.		****		
encapsulate			*************************	********	354
	calling higher level logging functions which	393 **	carrer: Threemar Only.	THEMINEN	353
something with catalogs	future this may involve doing something with catalogs	392 **		* * *	351
In the near				· *	350
to initialize logging.	Purpose: Do whatever it takes to initia	* *	line arguments and	** Purpose:	349
	MOTE	390 **	אדניז מזו פידורו אזופזו נזום מפפד רלליפם מ הממ	*	348
	Return Codes:	* *	exits with an error when the user types	** Return Codes:	346
		+ ×			345
	Outputs: None	*	None	** Outputs:	344
	none		מדאכי, מדאי (במונוומזות דדוזב מדאמוובוזרצי)	**	24 E
		* * * *	erm (command line	* * *	341
	Routine: daemon_initialize_logging	* *	parse_commandline	** Routine:	340
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		381		* *	339
*******	*************************	380 /**	***************************************	/*****	338
ng Page 70 of 80	17:30:26 2008 daemon initialize logging	Wed Jan 02	parse_commandline Page 69 of 80	Wed Jan 02 17:30:26 2008	Wed J

<pre>(void) EDMRestoreEng_logent(File,LINE, LOG_ERR,</pre>	587 2	Dreak;	
			528 3
		<pre>status == error_status_ok )</pre>	526 2
<pre>ebuff = (char *) csc_get_error( status );</pre>	583 2	<pre>/* If we succeeded, then exit this loop. */</pre>	525 2
if ( status != error_status_ok )		RE_SERVER_	523 2
<pre>(void)csc_authorization_init(&amp;status);</pre>	580 1	server login/pp	
	579 1	while (TRUE)	520 1
** a listen.	578 1	*/ Note that under SUN RPC this is a no-op.	519 1
** We need to initialize the authorization module before we	577 1		518 1
		* This process will keep trying to login to DCE if the registery	
<pre>memcpy((char *) &amp;if_spec.ip_addr, hp -&gt; h_addr, hp-&gt;h_length);</pre>	574 1	### ### ###	
}	572 1	* Login as SERVER_PRINCIPAL. The context of the process * will be set to this principal.	514 1
exit(1): "gethostbyname failed");	570 2	xe_vexvex_+nsrac(++_Spec);	
(void) EDMRestoreEng_logent(rile,tine,,bog_ekk, MESSAGE_GETHOSTBYNAME_FAIL,	568 2 569 2	/* Setup the interface specification for RPC */	
			507 1
		struct timespec sleep_interval = {5,0}; /* 5 second sleep interval */	
uname(&name);	562 1	struct timeval steep_interval = $(5,0)$ ;	
}	560 1	ifdef _STRUCT_TIMEVAL	502 1
Pxit(1):		May be removed when esl_timeval is ported to clients	
"The service cannot log in as required");	556 2	is here because	
MRestoreEng_]		*ebuff;	
$^{\prime *}$ If we got here, we had a unexpected failure. $^{*\prime}$		unsigned char *conn_h;	494 1
}	551 3 552 2	error_status_t status; /* error status (nbase.h) */	493 1
,		rpc_inic()	491 492 1
* uses sleep when SUNRPC, otherwise uses * pthread call to delay for the specified	546 3		0 0
( /*		***************************************	487
if (status == sec_rgy_server_unavailable)		** Intended caller: internal only.	486
<pre>/* If the failure was due to unavailable client, * pause and then try again.</pre>		** Purpose: 'Inis function is for doing RPC initialization.  ** For the most part it involves calling the csc routines.  ** This is pretty standard between UNIX and NT.	482 483 484
status, ( ebuff ? ebuff : "Unknown error")); }	537 3 538 2	Return Codes: exits w	479 480 481
<pre>MESSAGE_NO_LOGIN, 0,</pre>	535 535 3	** Outputs: None **	476 477 478
(void) EDMRestoreEng_logent( FILE,_LINE,LOG_ERR,		Non	474 475
<pre>ebuff = (char *) csc_get_error( status );</pre>	532 3	** Routine: rpc init	472 473
} else <i>/* Print error message if appropriate. */</i> {	529 2 530 2 531 3	/*************************************	471
1,00,20,2000 1pc_iiii. 1gg r + 0100			

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		657 }		
<pre>"CSC_SERVER_LISTEN failed: &lt;%d&gt; %s", status, (    ebuff ? ebuff : "Unknown error") );</pre>	"CSC_SERVER status, ( ebuff	655 1 656 1	free(conn_h);	620 1 621 }
O, LOG_I	<pre>/* We don't expect to get here. */ (void) EDMRestoreEng_logent(FILE,L</pre>	652 1 653 1 654 1	exit(1);  exit(1);	617 2 618 1
status );	ebuff = (char *) csc_get_error( status	650 1	chieff . "Introva error")	616 2
<pre>[corever. */ [listen_max_calls_default, &amp;status );</pre>	<pre>/* listen for RPC calls forever. (void) csc_server_listen(</pre>	647 1 648 1	ρ )	613 2 614 2 615 2
	char *ebuff;	645 1 Cl	<pre>ebuff = (char *) csc_get_error( status );</pre>	610 2
/* error status (nbase.h) */	error_status_t status;	р,	if ( status != error_status_ok )	
	void rpc_run()		conn.n., &status);	
		640 */	1,	604 1
********************************	**************************************	639	<pre>(void) csc_register_private_server_interface(     &amp;if_spec,</pre>	603 1
	Intended caller: internal only.			
between UNIX and NT.	This is pretty standard between		exit(1); handle");	600 2
,	NOT E		_MEMORY, 0, llocating memory for c	598 2 599 2
	Return Codes:		(void) EDMRestoreEng_logent(FILE,LINE, LOG_ERR,	
	* Outputs: None	629	if (conn_h == NULL)	
	* Inputs: None *		<pre>conn_h = calloc(1, CONNECT_HANDLE_SIZE);</pre>	593 1
	* Routine: rpc_run *	625 * * *	}	591 1
	**	624 **	<pre>ebuff ? ebuff : "Unknown error") );</pre>	
*****************************	<u></u>	623	IZATION_INIT failed: <%d> %:	588 2 589 2
Med 981 02 17:30:50 5000	, le a	l age / o or or	2001101110011	Page /5 of 80

Wed Jan	715 1		712 1				706 1			704 1		701 1		700 1	698 1	695 1			692 1	691 1	689 1	- ب	د د	- ب	1	ш	683 1	682 1	680 1		678	676		675	674	672	671	670	669	668	667	665	664	662	661	660	659	DAAA	1 12 12 12
02 17:30:2	/* pthread_create(&ccrtid, NULL, RestoreSvc_ccr, NULL); */	REProcessManager,	/ entry forme for the formous event	RPC	Start the other threads in the daemon. The m		commandlineargs[0], ctimebuf ):	re service %s starting	MESSAGE STARTUP, 0,	oid) EDMRestoreEng 1c	/* TOO STAYTON MOSSAGO */	<pre>ctimebuf[ strlen(ctimebuf) - 1 ] = 0;</pre>	atular (atimatus)	/* Overlay newline with null - buf should always be 26 bytes	<pre>ctimebuf = ctime(&amp;current_time);</pre>	<pre>/* Find out what time it is */ (void) time(&amp;current_time);</pre>	Find out what time it is	11		<pre>ret = CommandAPIInit(&amp;status);</pre>	char *ctimebut;	<pre>time_t current_time;</pre>			<pre>pthread_t progresstid;</pre>		ret;	<pre>void</pre>		daemon_specific_initialization()		*/	* * * * * * * * * * * * * * * * * * * *	***************************************		** Intended caller: internal only.	cket.	** Purpose: Do whatever makes this daemon special.			** Return Codes:	** Outputs: None	** Tipaco Notte		** Routine: daemon_specific_initialization	***	/*************************************	wed Jan 02 17:30:26 2008 daemon_specific_initialization Page 77 of 80	
Wed Jan 02 17:30															 													*															723 1		720 1		716 1	Jan 02 17:	
17:30:26 2008																																											pthread join(pmtid,	rpc_run();	RestoreSvc_Setup();	rnc init().	pthread_cre	30:26 2008	, , , , , , , , , , , , , , , , , , , ,
EDMRestoreEng.c 18																																											(pmtid, &statptr);		Setup();		<pre>pthread_create(&amp;ccwtid, NULL, RestoreSvc_ccw, NULL);</pre>	daemon_specific_initialization	00 1.00 0.00
Page 78 of 80																																															NULL);	Page 78 of 80	10.100

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				kill_handler( 0 );	747 1 748 }
				<pre>void daemon_cleanup()</pre>	_
					742 /*/
			***********	4、5、5、5、5、5、5、5、5、5、5、5、5、5、5、5、5、5、5、5	
				Intended caller: internal only.	
			11 clean up daemon properly.	Purpose: Call function which will	
				Return Codes: None	
				••	
				Routine: daemon_cleanup Inputs: None	728 729 ***
			***************************************	\**  **  **  **  **  **  **  **  **  **	726 /
		rage of or or	Wed Jan 02 17:30:26 2008	30 daemon_cleanup	Page 79 of 80
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